

What is a TMDL?

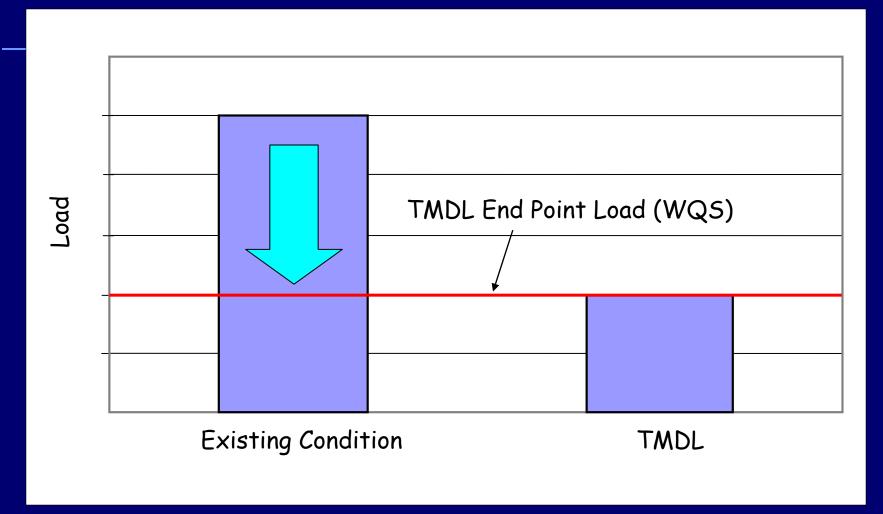
TMDL = <u>Total Maximum Daily Load</u> = maximum amount of a pollutant that can exist in a waterbody without violating water quality standards (WQS)



WQS = numeric or narrative limits on pollutants that ensure the protection of human health and of aquatic life



An Example TMDL



Reducing existing bacteria load to the TMDL end point load is expected to restore water quality.



Why are TMDL studies necessary?

- TMDLs must be developed for water bodies that do not meet water quality standards for their designated use (impaired waters). Federal and State Laws:
 - 1972 Clean Water Act (CWA), Section 303(d)
 - 1997 Water Quality Monitoring, Information and Restoration Act (WQMIRA)
 - 1999 Consent Decree due to American Canoeist Association Lawsuit
- Examples of Designated Uses:
 - Primary Contact (Swimming)
 - Aquatic life
 - Fish consumption
 - Public water supply
 - Shellfish consumption
 - Wildlife
- Impaired waters occur throughout Virginia in lakes, streams, and tidal waters.
 - Visit http://www.deq.virginia.gov/wqa/ir2008.html for DEQ's 2008 Integrated Assessment Report
- Based on DEQ 2008 Report ~1100 TMDLs due by 2022



Waters Under VDH Fish Consumption Advisories

Identified in 2008 305(b)/303(d) Water Quality Integrated Report

